

# MixMate™ Polymer Feed System



## CUSTOM ENGINEERED AND MANUFACTURED SYSTEMS

Modus Engineered Solutions Polymer Feed systems can be mounted in almost any location, offering reliable and consistent activated polymer in demanding process applications. Built on years of experience, this plug-and-play system is designed for industrial or municipal applications where saturated polymer is necessary to remove fine particles from wastewater applications. Available in multiple configurations, this system is tailored to your system requirements.

## PRODUCT DESCRIPTION

In order to create usable activated polymer, your system has to do Work. Most industrial Work is done by motors and moving parts. The power source for the MixMate is your pressurized city water system. The system converts high pressure water into high velocity water and aims that high velocity stream at a unique polymer/water interface to create diluted, made-down polymer in real-time. No aging required. Additional water is blended in down stream to create the exact polymer percentage for your application.

## KEY FEATURES

### **SIMPLE**

Nothing to operate.  
No moving mechanical  
parts \_\_.

### **COMPACT**

Extra compact batch  
system. Wall mounted unit  
takes up no floor space.

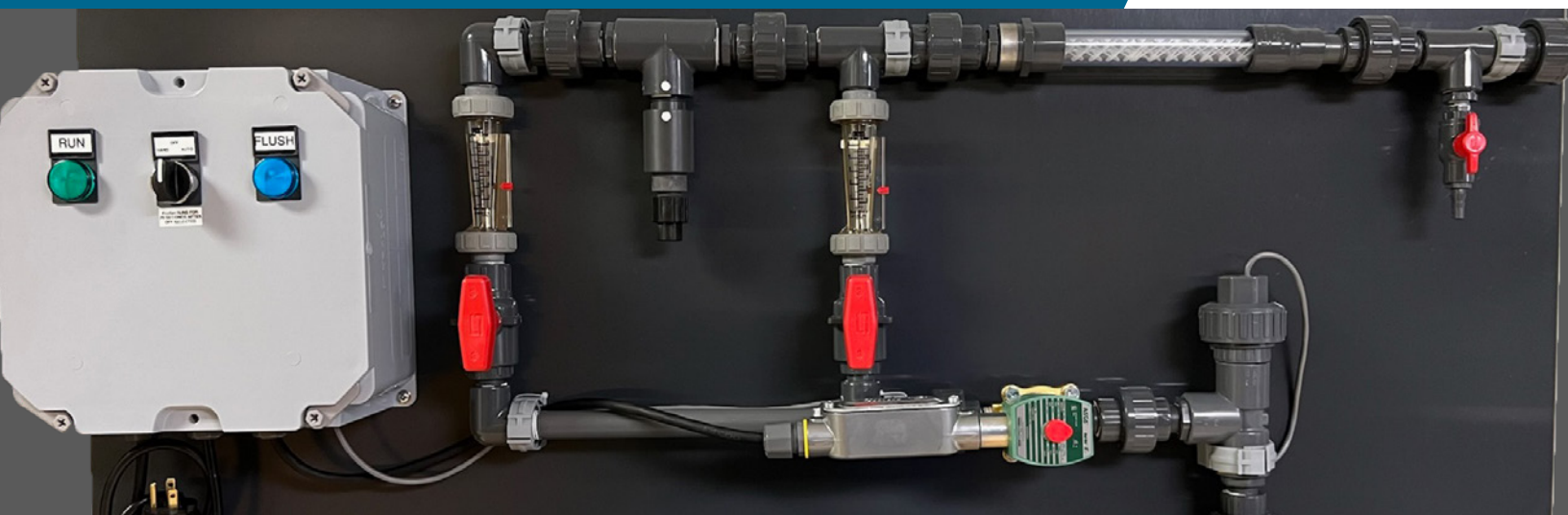
### **ACCESSIBLE**

Available inventory.  
Typical shipments are  
made within a week.

### **PERFORMANCE**

Hydrates emulsion  
polymer from 1.0%  
through 0.2%.

**There is no limit to the volume of polymer that can be activated and hydrated in a MixMate®**



## HYDRATING & ACTIVATING EMULSION POLYMER

1

### Polymer Feed Applications Above 15 GPH that Do Not Require 24 Hour Operation

The Polymer Feed System auto-flush offers the advantage of automatically flushing the system prior to pumping neat polymer. At the end of the run, but prior to a hard shutdown, the neat polymer pump is shut off. However, the Mixmate® continues to flush the system with water. After the system is flushed clean, the water valve is then automatically shut down.

2

### Polymer Feed Applications Below 15 GPH

The BatchMate Polymer Feed System offers the advantage of activating polymer in smaller applications. A second metering pump pulling from the integral storage tank will vary the polymer input into your system manually or via 4-20mA signal.

3

### Polymer Systems that Require 24/7 Operation

The wall mounted Polymer Feed System/metering pump combination will hydrate emulsion polymer and convey it into the water system directly and continuously. While aging helps improve polymer efficiency, no aging is required for polymer exiting a Mixmate®. This approach works best with 24/7 polymer requirements.

## CONFIGURATIONS

All our Polymer Feed Systems can be specified to activate polymer from 1% down to 0.2% and you can specify a system based on polymer in:

- mL per minute
- parts per million
- gallons per hour

This chart will help guide you in choosing the right Mixmate® for your application

MixMate Model	% Range	50 PSI		70 PSI	
		Water GPM	GPH Polymer	GPH Polymer	Chem ML/Min
M032-222-A234	1 to 0.3	.5 - 1.2	0.3 - .45	0.3 - 0.6	20 - 40
M032-323-A234	1 to 0.3	1 - 2.4	0.6 - 0.9	0.6 - 1.2	40 - 80
M072-424-A234	1 to 0.3	2 - 6.5	1.2 - 2.0	1.2 - 3.0	80 - 200
M102-725-A235	1 to 0.5	4 - 12	2.5 - 3.5	2.5 - 4.5	150 - 285
M202-526-A236	1 to 0.5	10 - 20	3.0 - 4.5	3.0 - 6.0	200 - 400
M202-627-A236	1 to 0.3	20 - 50	6.0 - 9.0	6.0 - 15	400 - 1000

PPM POLYMER to GPM WASTE STREAM GPM						
50	100	200	400	600	800	
100	50	25	13	8	6	
200	100	50	25	17	13	
400	200	100	50	33	25	
	417	208	104	69	52	
	500	250	125	83	63	
		500	250	167	125	

